# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty) | REC'D | 6 MAR 2006

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416				
P24675 PC			19 to 1 to		
International application No.	International filing date (da	y/month/year)	Priority date (day/month/year)		
PCT/NO2004/000367	30-11-2004		08-12-2003		
International Patent Classification (IPC) or national classification and IPC					
See Supplemental Box					
A					
Applicant  Discrepance Applicant					
Börgesen, Are					
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>					
2. This REPORT consists of a total of 4 sheets, including this cover sheet.					
3. This report is also accompanied by ANNEXES, comprising:					
a. Sent to the applican	t and to the International Bu	romu) a total of 2	2 sheets, as follows:		
··· — (			e been amended and are the basis of this report		
and/or sheets	s containing rectifications au	thorized by this Au	thority (see Rule 70.16 and Section 607 of the		
Administrati	ve Instructions).		it, considers contain an amondment that ages		
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the					
Supplementa		••			
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))					
containing a sequence listing and/or tables related thereto, in electronic					
form only, as indica	ted in the Supplemental Box	Relating to Sequen	nce Listing (see Section 802 of the		
Administrative Instr					
4. This report contains indications		is:			
Box No. I Basis	of the report				
1 1	•				
Box No. III Non-e	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack	Box No. IV Lack of unity of invention				
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial					
applicability; citations and explanations supporting such statement					
Box No. VI Certain documents cited					
	Certain defects in the international application				
Box No. VIII Certain observations on the international application					
		Data of completio	n of this report		
Date of submission of the demand		Date of completio	n or ans report		
		00 00 000	6		
18-08-2005		08-03-2006			
Name and mailing address of the IPEA/SE		Authorized office	r		
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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO2004/000367

#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Cover sheet

International patent classification (IPC)

F03B 13/18 (2006.01) F03B 13/26 (2006.01)

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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International application No.

PCT/NO2004/000367

Box	No. I	Basis of the report					
1.	1. With regard to the language, this report is based on:						
	$\boxtimes$	the international application in the language in which it was filed					
		a translation of the international application into which is the language of a translation furnished for the purposes of:					
		international search (Rules 12.3(a) and 23.1(b))					
		publication of the international application (Rule 12.4(a))	i				
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))					
2.	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):						
		the international application as originally filed/furnished					
	$\boxtimes$	the description:					
		pages <u>1-6</u>	as originally filed/furnished				
		pages* received by this Authority on					
	<u> </u>						
	$\boxtimes$	the claims:	as originally filed/furnished				
		pages es amended (together	with any statement) under Article 19				
		F-15-1	30-11-2005				
		F-6					
	$\square$	the drawings:					
		pages 1-5	as originally filed/furnished				
		pages* received by this Authority on					
		pages* received by this Authority on					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to S	Sequence Listing.				
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to the made, since they have been considered to go beyond the disclosure as filed, as in 70.2(c)).	is report and listed below had not been ndicated in the Supplemental Box (Rule				
		the description, pages					
	the claims, Nos.						
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
*	If ite	m 4 applies, some or all of those sheets may be marked "superseded."					

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO2004/000367

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement 1. Statement Claims Novelty (N) Claims YES Inventive step (IS) Claims Claims YES Industrial applicability (IA) Claims 1-9 NO Claims

#### 2. Citations and explanations (Rule 70.7)

The document US 4170738 A is regarded as being the closest prior art to the subject-matter of claim 1, and shows an energy device powered by the motion of water beneath the waves. This energy device has a submerged sail guided to reciprocate with the movement of the water.

The subject-matter of claim 1 differs from this known US 4170738 A in that at least one submerged sail, while being connected to a transmission element, is displaceable between two magazines, and where the sail, while being stored in the magazines, is unconnected relatively to the transmission element.

Therefore, the subject-matter of claim 1 meets the requirements of the PCT with respect to novelty and inventive step.

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# Amended Claims

- 1. A tidal power station device (1) including at least one submerged sail (14, 14), necessary structures (2, 4) and at least one transmission element (10), characteristic characteristic cone submerged sail (14, 14'), while being connected to the transmission element (10), is displaceable between two magazines (18, 20), and where the sail (14, 14'), while being stored in the magazines (18, 20), is unconnected relatively to the transmission element (10).
- 2. A device in accordance with Claim 1, where the tidal power station comprises a first cage (2) and a second cage (4), at least one belt-like element (10) extending around reversing disks (12) at the respective cages (2, 4), c h a r a c t e r i z e d i n that at least one sail (14, 14') has an active position in which the sail (14, 14') is connected to the belt-like element (10) and an inactive position in which the sail (14, 14') essentially runs freely with respect to the belt-like element (10).
  - 3. A device in accordance with Claim 2, c h a r a c t e r i z e d i n that the sail (14, 14') is connected to the belt-like element (10) by at least one lockable guide (16).
- 25 4. A device in accordance with Claim 2, c h a r a c t e r i z e d i n that the sail (14, 14') is provided with a hinge shaft (22).
  - 5. A device in accordance with Claim 1, characterized in that a number of

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sails (14, 14') in their starting position are located in a first magazine (18).

- 6. A device in accordance with Claim 5, c h a r a c t e r i z e d i n that the sails (14, 14') are fed out sequentially from the first magazine (18) or a second magazine (20).
- 7. A device in accordance with Claim 6, c h a r a c t e r i z e d i n that the output spacing between the sails (14, 14') is determined by the length of a distance line (26).
- 8. A device in accordance with Claim 6, c h a r a c t e r i z e d i n that adjacent sails (14, 14') are interconnected by means of a locking device (24) when located in the magazine (18, 20).
- 15 9. A device in accordance with Claim 6, c h a r a c t e r i z e d i n that the distance line (26) is arranged so as upon tensioning to release the locking device (24) associated with the two adjacent sails (14, 14').

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